The Flat World Swung Open: How Web Technology Is Revolutionizing Education

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Is the World Flat?

Or is it Open?

UCLA Summer Digs Program
Dig in, archaeology fans! UCLA blogs to offer front-row seat at archaeology digs, Meg Sullivan, 6/25/2008

David Thomas, Archeologist, La Trobe University, Australia (Discovery News)
Let's rename the Web: The Web of Learning

The Web of Learning

Today we have the Web 2.0

We are entering a jumping off point...

WE-ALL-LEARN:
Ten Forces that Opened the Learning World
- Web Searching in the World of e-Books (i.e., Darwin)
- E-Learning and Blended Learning
- Availability of Open Source and Free Software (e.g., Moodle)
- Leveraged Resources and OpenCourseWare (e.g., MIT)
- Learning Object Repositories and Portals (i.e., shared content)
- Learner Participation in Open Info Communities (YouTube)
- Electronic Collaboration and Interaction (sync and async)
- Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
- Real-Time Mobility and Portability (e.g., iPhone)
- Networks of Personalized Learning (Blogs, RSS)

Perhaps people learning online are akin to the alien archaeologists in the 2008 movie, Indiana Jones and the Kingdom of the Crystal Skull, Indy said, "Their treasure wasn't gold, it was knowledge. Knowledge was their treasure."
Audience Participation!

1. WE
2. ALL
3. LEARN!!!

Triple Learning Technology Convergence of "WE-ALL-LEARN"
2. Pages: The availability of free educational content and resources (OER—Open Educational Resources).
3. Participatory Learning Culture: A move towards a culture of open access to information, international collaboration, and global sharing.

Opener #1. Web Searching (e.g., Google, MSN, Yahoo!) in the World of e-Books (i.e., Darwin, Shakespeare, etc.)

Trend #1. Web Searching in the World of e-Books. What happens then?

WE
ALL
LEARN!!!

Week after holidays, e-book sales outdo print, USA Today, January 5, 2011, Bob Minzesheimer and Carol Memmott

Whether a surge in e-book sales can be sustained and what effect it could have on traditional bookstores remains to be seen.

April 10, 2010: Seton Hill University, 2,100 students an iPad and freshmen a 13-inch MacBook laptop. August 10, 2010, Can college students learn as well on iPads, e-books?, USA Today, Beth Marklein

USA TODAY, June 7, 2010

Does iPad have the magic to bring people together?
July 23, 2010
India unveils $35 computer for students,
CNN World, Harmee Shah Singh

Opener #2. E-Learning and Blended Learning

Letter from Bill Gates about online learning (January, 2010)
http://www.gatesfoundation.org/annual-letter/2010/Pages/education-learning-online.aspx

Salman Khan (Khan Academy) (videos on math, bio, trig, chemistry, money and banking, economics, statistics, etc.): http://www.khanacademy.org

A Grain of Rice: A Bloomington man’s computer vocab game feeding the world (John Breen)

Adora Svitak, age 13, World’s Youngest Teacher
Florida Virtual School (71,000+ students); Indiana University High School (4,000 students and 1,400 enrolled in diploma programs)

Capella Tower
225 South Sixth Street, Minneapolis
Formerly, the "Halo"

iSMART: Integration of Science, Mathematics, and Reflective Teaching (iSMART) is a free 2-year online graduate program for middle school science and mathematics teachers in Texas, University of Houston
http://www.coe.uh.edu/programs/iSMART/3925364.pdf
http://www.coe.uh.edu/programs/iSMART/math/Insights.html

Opener #3. Availability of Open Source and Free Software (e.g., Linux, Apache, Moodle, Sakai)

Jen Cheuvot and Mimi Lee, Univ of Houston

Moodle (35+ million users (930,000 registered) in 213 countries, nearly 50,000 sites, 3.5+ million courses, June 27, 2010)

Opener #4. Leveraged Resources and OpenCourseWare (OCW) (e.g., free courses from MIT, Utah State, CORE, OOPS)

Open Yale
Open Educational Resources
How about rich video portals?
Most of the Websites below did not exist 5 or 10 years ago.

1. BBC News Video and Audio
2. CNN.com Video
3. MSNBC.com
4. Google Video, Yahoo Video
5. Current TV
6. Pozza TV
7. MIT World
8. YouTube, YouTube Edu
9. TeacherTube
10. Link TV, Explore, Global Pulse, Latin Pulse
11. Howcast, Big Think, WonderHowTo, ExplorersTV, NASA TV, ClipCast, TV Lesson, BookTV, Edutopia videos,
    MonkeySee, DoPlick, the Research Channel, iViesense

How TED Connects the Idea-Hungry Elite, Fast Company, Anya Kamenetz; September 1, 2010

Chris Anderson: The entrepreneur bought TED in 2001. "It felt like something you could devote your life to," he says.

Shared Online Video
(e.g., YouTube and the Royal Channel)

More Shared Online Video: Academic Earth, TV Lesson, and Fora TV

Tracking Live Internet Thawing:
A Colossal of an Idea

Ida (a transitional species)
47-Million-Year-Old Darwinius Masillae Fossil
the Missing Link? (wowOwow, May 20, 2009)
May 24, 2010
Author Nicholas Carr, The Web Shatters Focus, Rewires Brains, Wired
http://www.wired.com/magazine/2010/05/ff_nicholas_carr/

"Video Primers in an Online Repository for e-Teaching and Learning" V-PORTAL, TravelinEdMan (27 free/open YouTube videos), September 2010
http://www.youtube.com/user/TravelinEdMan

Participatory E-Books

Scribd: Documents on Web (http://www.scribd.com/; 50 million unique visitors per month, 10's of millions of documents, April 2010)
Opener #7. Electronic Collaboration and Interaction (synchronous & asynchronous)

Voices from Israel and Palestine

Synchronous Conferencing Presentations

Flat Classrooms Project and Global Nomads Group

About Us

The Next Generation of Videoconferencing Chronicle of HE, October 21, 2009

Opener #8. Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
Second Life
(business, law, education, English, medicine)

Social Networking Gaming (e.g., Farmville)
For social networks, it's game on, USA Today, Jon Swartz, Thursday October 15, 2009

Opener #9. Real-Time
Mobility and Portability (e.g., iPhone, low cost wireless devices)
15m people/month India
40,000/week Rwanda
60,000 earthlings/hour

"A" is for App, Anya Kamenetz, Fast Company, April 2010

Opener #10. Networks of Personalized Learning
(Blogs, Podcasts, MySpace, Flickr, and RSS)

June 9, 2010
TwitterPeek:
Restricted to Twitter.

WikiReader:
Updating can be a pain.
Predictions

1. Five Billion "Hive-Nuts" Have at IT
2. Emergence of Lifelong Super E-Mentors/Coaches
3. Quarter-Century Learning Clubs
4. Terabyte Learning Access Points
5. The Veneration of Learning
6. Personalization+ Portfolios
7. The Selection of Global Learning Partners
8. The Shared Learning Era
9. Teaching-Learning Perpetuities
10. Teachers, Teachers
11. The Rise of the Super Blends
12. Self-Determined Humans
13. Free Learning Zones
14. Authentic Learning Amalgamations
15. Alexandrian Aristotles

Decisions for this Open Ed World?

- Technology and Admin Folks:
  - What to do about OER, open sources, E-books, mobile, etc.?

- Instructor decisions:
  - Act as Concierge, Counselor, Course facilitator, Credit manager?

- Students decisions:
  - Should I attend traditional university or create your own degree path?
  - How to report use of OER on resumes?

This book is an attempt to reveal a wide range of learning options in front of you while also offering you a framework to make sense of them. As the Grail Knight said in the 1989 movie, *Indiana Jones and the Last Crusade*, "choose wisely." If you do, WE-ALL-LEARN. The world is now open to you!